

# PRODUCTION OF OXAZOLINE POLYMER/SILICA COMPOSITE MOLDED ARTICLE

**Publication number:** JP3056535

**Publication date:** 1991-03-12

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**Classification:**

- international: **C08J5/18; C08G73/02; C08G77/42; C08L79/02; C08L83/04; C08J5/18; C08G73/00; C08G77/00; C08L79/00; C08L83/00; (IPC1-7): C08G73/02; C08G77/42; C08J5/18; C08L79/02; C08L83/04**

- european:

**Application number:** JP19890190446 19890725

**Priority number(s):** JP19890190446 19890725

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## Abstract of JP3056535

**PURPOSE:**To obtain the subject uniform and transparent composite molded article without troubles at a low cost by gelatinizing an oxazoline polymer containing hydrolyzable and polymerizable silyl group and a hydrolyzable and polymerizable silane and forming the components before or after the gelatinization. **CONSTITUTION:**An oxazoline polymer containing hydrolyzable and polymerizable group (preferably trialkoxysilyl group) and a hydrolyzable and polymerizable silane (preferably tetraalkoxy-silane) are gelatinized by co-hydrolytic polymerization reaction. Before or after the gelatinization, the components are formed in a proper form such as fiber, film or sphere to obtain the objective composite molded article having easily controllable pore diameter and its distribution. The above forming process is preferably coating.

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